Name:\_\_\_\_\_\_\_\_\_\_\_

**Gases Unit Test**

1. When the conditions are set at 0°c and 1atm, it is said that it is:
   1. Standard temperature and pressure
   2. Ideal gas conditions
   3. Atmospheric pressure
   4. Standard volume conditions
2. When gases expand and mix with other gases to fill available space, it is called
   1. Vaporization
   2. Evaporation
   3. Solidification
   4. Diffusion
3. Gases are the
   1. Least compacted form of matter
   2. Form of matter with the highest bond strength between molecules
   3. Most compacted form of matter
   4. Form of matter with the least amount of mass
4. Temperature and pressure are
   1. Inversely proportional
   2. Not related
   3. Proportional
   4. Diffused into partial pressure
5. Draw a picture of how gases behave

Describe what is going on in your picture

1. In your own words, describe the kinetic molecular theory of gases
2. A sample of neon gas has a pressure of 0.50 atm. Give the pressure of the neon in torr.
3. A 60.0-mL sample of sulfur dioxide gas, SO2, is collected at 769 torr and 28°C. Calculate the volume of SO2 at 1520 torr.
4. An 18 liter container holds 16.00 grams of oxygen gas (O2) at 45 °C. What is the pressure in the container?